

Table 1. Example of water analyses from the waterworks at Šamorín and Rusovce

Parameter	Unit	Slovak Standards	Locality	
		STN 757111	Šamorín	Rusovce
Temperature	°C	12.0	11.0	11.4
Look afeter sampling			transparent	
Mist	ZF		clear	0.90
Color	mg/l		without	
Odor			no	0
Conductivity	mS/m	100.0	36.6	46
pH		8.5	7.70	7.32
Acidity pH 8.3	mmol/l		0.12	
Alkalinity pH 4.5	mmol/l		3.9	3.7
COD-Mn	mg/l	3.0	0.8	0.6
Dissolved Solids - dried	mg/l	1000.0	261.0	303
Calcium & Magnesium	mmol/l	5.0	2.20	2.20
Calcium	mg/l	>30.0	66.1	62.12
Magnesium	mg/l	30.0	13.4	15.81
Sodium	mg/l		10.9	10.63
Potassium	mg/l		2.6	1.426
Iron	mg/l	0.3	<0.01	0.001
Manganese	mg/l	0.1	<0.05	0.014
Ammonia ions	mg/l	0.5	<0.05	<0.030
Nitrite	mg/l	0.1	<0.01	<0.030
Nitrate	mg/l	50.0	1.50	1.42
Chloride	mg/l	100.0	18.6	17.6
Sulfate	mg/l	250.0	23.5	32.2
Phosphate	mg/l		<0.01	<0.100
Silica	mg/l		5.1	
Hydrocarbons	mg/l		238.0	226.0
Fluoride	mg/l	1.5	<0.10	<0.20
Tensides	mg/l	0.2	<0.05	<0.04
Phenol volatiling with steam	mg/l	0.05	<0.03	<0,005
Arsenic	µg/l	10.0	<5.0	<1.20
Cadmium	µg/l	3.0	<0.50	<0.04
Lead	µg/l	10.0	< 1.0	0.20
Mercury	µg/l	1.0	<0.36	<0.05
Aluminium	mg/l	0.2	<0.030	0.028
Copper	µg/l	500.0	3.0	7.58
Zinc	mg/l	3.0	<0.020	0.103
Chromium	µg/l	50.0	<1.0	0.19
Nickel	µg/l	20.0	<1.0	1.69
Antimony	µg/l	5.0	<3.00	<0.52
Absorbance		0.08	0.01	<0.010
Nonpolar extractable species UV	mg/l	0.05	<0.01	
Nonpolar extractable species IR	mg/l		0.03	<0.030
Total Organic Carbon	mg/l		2.03	1.261
Fluoranthene	ng/l		<3.000	<5.0
Polyaromatic Hydrocarbons	ng/l	200.0	<30.00	
Benzo(b)fluoranthene	ng/l		<3.000	<5.0

Benzo(k)fluoranthene	ng/l		<3.000	<5.0
Benzo(g,h,i)perylene	ng/l		<3.000	<5.0
Indeno(1,2,3-c,d)pyrene	ng/l		<30.00	<5.0
Benzo(a)pyrene	ng/l		<3.000	<1.0
Chloroform	µg/l	40.0	<0.010	0.111
Tetrachloromethane	µg/l	2.0	<0.01	<0.020
1,2 dichloroethane	µg/l	3.0	<0.04	<0.100
1,1,2,2 tetrachloroethene	µg/l	40.0	<0.01	<0.500
1,1,2 trichloroethene	µg/l	70.0	<0.01	<0.100
Benzene	µg/l	1.0	< 1.000	0.036
Dichlorobenzene	µg/l	0.3	<0.01	<0.01
Chlorobenzene	µg/l	10.0	<0.001	<0.020
Dichlorophenol	µg/l	2.0	<0.001	
Dichlorodiphenyltrichloroethane	µg/l		<0.005	
Hexachlorobenzene	ng/l		<2.000	<10
Heptachlor	ng/l		<2.000	<10
Chloroethene	µg/l	0.5	<0.05	
Lindane	µg/l		<0.002	<0.010
Methoxychlor	µg/l		<0.002	<0.050
Toluene	µg/l	50.0	<5.000	0.033
Xylene	µg/l	100.0	<10.00	<0.020
Thermotolerant coliform bacteria	CFU/100 ml	0	0	0
Coliform bacteria	CFU/100 ml	0	0	0
Faecal streptococci	CFU/100 ml	0	0	0
Mesophilic bacteria	CFU/1 ml	100	0	1
Psychrophilic bacteria	CFU/1 ml	500	0	0
Fe-bacteria	CFU/100 ml		6	
Mn-bacteria	CFU/100 ml		0	
Living organisms	i/ml	0	0	0
Colorless flagellum	i/ml	50	0	0
Dead organisms	i/ml	30	0	0
Abioseston	%	10	2	3
Fe and Mn-bacteria	%	20	0	0
Ciliata	i/ml			0
Oxygen saturation	%	>50		34.0
Dissolved oxygen	mg/l			3.70
Cyanide	mg/l	0.03		<0.020
Silver	mg/l	0.05		0.00012
Selenium	mg/l	0.01		<0.00040
Vanadium	mg/l			<0.001
Bromdichloromethane	mg/l	0.015		<0.015
Styrene	µg/l	20.0		<0.020
2,4-dichlorophenol	mg/l	0.002		<0.000010
2,4,6-trichlorophenol	mg/l	0.01		<0.001
Total volume alfa activity	Bq/l	0.1		0.000
Total volume beta activity	Bq/l	1.0		0.050
Volume activity of Rn 222	Bq/l	50.0		50.4